TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-04-10-03** **Date: 14-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied By Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	10-04-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	66	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	100+	Min. 75cm
4	Flash point, °C	232.5	Min. 220°C
	Fire point, °C	255.5	

Note:
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Prepared by
Harshitha

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-04-01-03 **Date: 03-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-17
Sample ID No	:	2017-04-01-03/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	01-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	286	286	2.86	97.1	80-100
26.5	2281	2567	25.67	74.3	55-90
9.5	1851	4418	44.18	55.8	35-65
4.75	1965	6383	63.83	36.2	25-55
2.36	1271	7654	76.54	23.5	20-40
0.425	1198	8852	88.52	11.5	10-25
0.075	875	9727	97.27	2.7	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.10%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-04-03** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-17
Sample ID No	:	2017-04-04-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-04-17
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	178	178	1.62	98.4	95-100
22.4	2175	2353	21.39	78.6	60-80
11.2	2381	4734	43.04	57.0	40-60
4.75	1973	6707	60.97	39.0	25-40
2.36	2016	8723	79.30	20.7	15-30
0.6	643	9366	85.15	14.9	8-22
0.075	1472	10838	98.53	1.5	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2017-04-07-03 **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-17
Sample ID No	:	2017-04-07-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	2.01	98.0	95-100
22.4	2614	2815	28.15	71.9	60-80
11.2	2016	4831	48.31	51.7	40-60
4.75	2161	6992	69.92	30.1	25-40
2.36	668	7660	76.60	23.4	15-30
0.6	765	8425	84.25	15.8	8-22
0.075	1192	9617	96.17	3.8	0-5

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-04-03** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-17
Sample ID No	:	2017-04-04-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	8.9%	
Combined Flakiness and Elongation Index for WMM	20.6%	

Note:-
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-04-03** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-17
Sample ID No	:	2017-04-04-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.6	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	59.1	62.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	243.1	239.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	19.5	20.8
6	Aggregate impact value (Mean of two tests)	Pecentage	20.1	

Note:-
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Prepared By:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-01** **Date: 14-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-01/01
Type of Mix	:	Coarse Aggregate for DBM (Dense Bituminous Macadam)
Date of test	:	13-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-8
Flakiness Index	13.2%	Combined Flakiness & Elongation Index for DBM is Maximum 35%
Elongation Index	14.1%	
Combined Flakiness and Elongation Index for DBM	27.3%	

Note:-
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AE-03

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End of Report

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : CP-RW-2017-04-10-01 **Date: 14-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/141/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-17

Sample ID No : 2017-04-10-01/01

Type of Mix : Coarse Aggregate for DBM(Dense Bituminous Macadam)

Date of test : 13-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.5	311.3
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.9	77.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	239.1	233.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impct value	(B/A)*100	23.08	24.80
6	Aggregate impct value (Mean of two tests)		23.94	

Note:-
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Prepared By:
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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID : CP-RW-2017-04-10-01 **Date: 14-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03

Customer Reference : BBMP/EE(YNK.D)/W.O/141/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-17

Sample ID No : 2017-04-10-01/01

Type of Mix : Coarse Aggregate for DBM (Dense Bituminous Macadam)

Date of test : 11-04-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
218	Weight of Wet aggregates + Basket suspended in water	A1	grams	2360	2292	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1569	1501	
4	Weight of Saturated Surface Dry aggregate	B	grams	2522	2402	
5	Weight of oven dried aggregate	C	grams	2515	2394	
6	Specific gravity	C/(B-A)		2.64	2.66	2.65
7	Apparent Specific gravity	C/(C-A)		2.66	2.68	2.67
8	Water absorption	100*(B-C) /C	Percent	0.28	0.33	0.31

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2017-04-10-01** **Date: 14-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03

Customer Reference : BBMP/EE(YNK.D)/W.O/141/2017-18

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 10-04-17

Sample ID No : 2017-04-10-01/01

Type of Mix : DBM (Dense Bituminous Mecadam)

Date of test : 10-04-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	10.94	11.12	9KN(min)
2	Marshal flow at 60°C, mm	3.18	3.26	2-4
3	Percent air Voids	4.82	4.11	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.26	14.71	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.64	71.88	65-75
6	Density, g/cc	2.35	2.36	–

Note:-
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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-10-01** **Date: 14-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/140/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-01/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	10-04-17
Weight of Sample(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	170	170	3.40	96.6	90-100
19	880	1050	21.00	79.0	71-95
13.2	990	2040	40.80	59.2	56-80
4.75	1004	3044	60.88	39.1	38-54
2.36	505	3549	70.98	29.0	28-42
0.3	1033	4582	91.64	8.4	7-21
0.075	198	4780	95.60	4.4	2-8
PAN	220	5000	0.00	0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-10-01**	**Date: 14-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Chikkadinne 1st,2nd and 3rd Main roads of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/141/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-04-17	
Sample ID No	:	2017-04-10-01/01	
Type of Mix	:	DBM(Dense Bituminous Macadam)	
Date of test	:	10-04-17	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.3	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

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